

Title (en)

Catalyst having low volume of large pores and hydrocarbon hydroconversion process using same.

Title (de)

Katalysator mit niedrigem Makroporenvolumen und diesen Katalysator verwendendes Verfahren zur Wasserstoffumwandlung von Kohlenwasserstoffen.

Title (fr)

Catalyseur à faible volume de grands pores et procédé d'hydroconversion d'hydrocarbures mettant en oeuvre ce catalyseur.

Publication

**EP 0024199 A1 19810225 (EN)**

Application

**EP 80302790 A 19800813**

Priority

- US 6657279 A 19790815
- US 15520680 A 19800602

Abstract (en)

The catalyst of the invention comprises a hydrogenation component (Group VI and/or Group VIII Metal(s)) and a support comprising agglomerates of alumina having initially not more than 0.20 cc g of pore volume in macropores of diameter 400 Angstrom units and greater. The alumina agglomerates comprise less than 10 wt.% of silica. The agglomerates may be prepared under agglomeration conditions including a heat input rate in the rate of from 4,166 to 18,888 calories hour/gram of alumina to obtain the stated maximum macroporosity volume. The low macropore catalyst is useful in processes for the hydroconversion of hydrocarbonaceous oils.

IPC 1-7

**B01J 35/10**; **B01J 37/00**; **B01J 23/84**; **C10G 49/04**

IPC 8 full level

**B01J 23/85** (2006.01); **B01J 35/10** (2006.01); **B01J 37/00** (2006.01); **C10G 49/04** (2006.01)

CPC (source: EP US)

**B01J 23/85** (2013.01 - EP US); **B01J 35/60** (2024.01 - EP US); **B01J 37/0009** (2013.01 - EP US); **C10G 49/04** (2013.01 - EP US); **B01J 35/615** (2024.01 - EP US); **B01J 35/638** (2024.01 - EP US); **B01J 35/647** (2024.01 - EP US); **B01J 35/651** (2024.01 - EP US)

Citation (search report)

- FR 2243020 A1 19750404 - TOA NENRYO KOGYO KK [JP]
- [AD] US 4159969 A 19790703 - MONE RUDOLF A J, et al
- [A] US 3998722 A 19761221 - MAYER FRANCIS X, et al
- [A] US 3928176 A 19751223 - HAMNER GLEN P, et al
- [A] US 4024231 A 19770517 - ZIEGENHAIN WILLIAM C
- [A] US 4036784 A 19770719 - GEMBICKI STANLEY A, et al
- [A] US 4081405 A 19780328 - SAWYER WILLARD H
- [A] DE 2730698 A1 19790118 - EXXON RESEARCH ENGINEERING CO

Cited by

EP0105435A3; EP0406896A1; US5134109A

Designated contracting state (EPC)

BE DE GB NL

DOCDB simple family (publication)

**EP 0024199 A1 19810225**; **EP 0024199 B1 19830302**; CA 1137063 A 19821207; DE 3062211 D1 19830407; US 4276201 A 19810630

DOCDB simple family (application)

**EP 80302790 A 19800813**; CA 356932 A 19800724; DE 3062211 T 19800813; US 15520680 A 19800602